

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

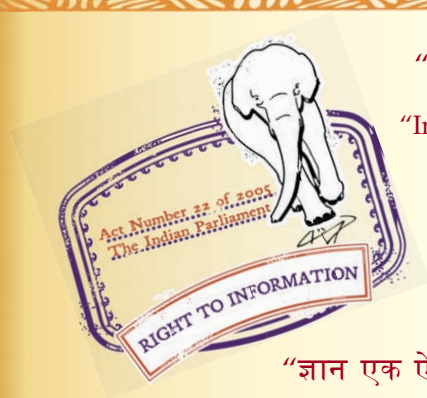
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7119 (1973): Cotton cloth for PAGRIS and PAGS [TXD 31: Man-Made Fibres, Cotton and their Products]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



Indian Standard
**SPECIFICATION FOR
COTTON CLOTH FOR *PAGRIS* AND *PAGS***

(Second Reprint NOVEMBER 1992)

UDC 677.21.064

© Copyright 1974

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR COTTON CLOTH FOR *PAGRIS* AND *PAGS*

Cotton and Cotton Products Sectional Committee, TDC 2

Chairman

DR V. SUNDARAM

Representing

Indian Council of Agricultural Research, New Delhi

Members

DR V. G. MUNSHI (<i>Alternate to</i> Dr V. Sundaram)	
SHRI T. V. ANANTHAN	The Bombay Textile Research Association, Bombay
DR N. BALASUBRAMANIAM (<i>Alternate</i>)	
CAPT A. K. BHATTACHARYA, I. N.	Naval Headquarters
SHRI R. K. ATHLEKAR (<i>Alternate</i>)	
SHRI G. N. CHATTERJI	Ministry of Defence (R&D)
SHRI B. K. RANGAN (<i>Alternate</i>)	
SHRI K. P. CHOUDHURI	Bengal Millowners' Association, Calcutta
SHRI A. C. DASGUPTA	The Delhi Cloth and General Mills Co Ltd, Delhi
DIRECTOR OF HANDLOOMS AND TEXTILES	Government of Tamil Nadu
SHRI N. C. JAIN	Ministry of Defence (DGI)
SHRI P. B. MEHTA (<i>Alternate</i>)	
SHRI N. K. JAIN	The U. P. Cotton Textile Millowners' Association, Kanpur
SHRI R. N. JOSHI	The Millowners' Association, Bombay
SHRI R. S. MEHRA	All India Exporters' Chamber, Bombay
SHRI R. M. MERCHANT	The Cotton Textiles Export Promotion Council, Bombay
SHRI S. P. MULLICK	National Test House, Calcutta
SHRI S. M. NADKARNI	The Ahmedabad Millowners' Association, Ahmedabad
SHRI GAUTAMBHAI S. NANAVATY	The Ahmedabad Millowners' Association, Ahmedabad
SHRI J. K. S. NICHOLSON	The East India Cotton Association Ltd, Bombay
SHRI D. G. DAMLE (<i>Alternate</i>)	
SHRI KRISHNAKANT S. PATEL	Bombay Piece-Goods Merchants' Mahajan (Association), Bombay
SHRI T. RANGASAMY	The Southern India Millowners' Association, Coimbatore
REPRESENTATIVE	South India Textile Research Association, Coimbatore

(Continued on page 2)

© Copyright 1974

BUREAU OF INDIAN STANDARDS

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

(Continued from page 1)

Members

SHRI B. P. SENGUPTA

SHRI N. S. SHARMA

SHRI A. SUBRAMANIAM

SHRI A. CHELLARAJ (*Alternate*)

SHRI T. A. SUBRAMANIAN

DR B. V. IYER (*Alternate*)

SHRI HAR NARAYAN TAPARIA

SHRI D. V. TYAGI

SHRI B. SIVARAMAN (*Alternate*)

SHRI HARKISHON N. UDANI

SHRI A. S. WAGH

SHRI R. G. ZALANI

SHRI D. G. CHITRE (*Alternate*)

SHRI S. M. CHAKRABORTY,

Director (Tex)

Representing

Inspection Wing, Directorate General of Supplies and Disposals, New Delhi

The All India Federation of Co-operative Spinning Mills Ltd, Bombay

Madura Mills Co Ltd, Madurai

Ahmedabad Textile Industry's Research Association, Ahmedabad

Federation of All India Cotton Powerloom Associations, Bombay

Textiles Committee, Bombay

Keshavlal Talakchand (Private) Ltd, Bombay

Binny Limited, Madras

Office of the Textile Commissioner, Bombay

Director General, ISI (*Ex-officio Member*)

Secretary

SHRI P. VENKATARAMAN

Deputy Director (Tex), ISI

Cotton and Cotton Products Subcommittee, TDC 2:1

Convener

SHRI GAUTAMBHAI S. NANAVATY The Ahmedabad Millowners' Association, Ahmedabad

Members

SHRI A. P. ANANTHAKRISHNAN

SHRI A. C. DASGUPTA

SHRI N. C. JAIN

SHRI P. B. MEHTA (*Alternate*)

SHRI R. N. JOSHI

SHRI R. C. D. KAUSHIK

DR K. I. NARASIMHAN

SHRI D. G. CHITRE (*Alternate*)

SHRI ARUNBHAI M. PARIKH

The Millowners' Association, Bombay

The Delhi Cloth and General Mills Co Ltd, Delhi

Ministry of Defence (DGI)

The Millowners' Association, Bombay

The Technological Institute of Textiles, Bhiwani

Office of the Textile Commissioner, Bombay

The Ahmedabad Millowners' Association, Ahmedabad

The Southern India Millowners' Association, Coimbatore

Inspection Wing, Directorate General of Supplies and Disposals, New Delhi

Ahmedabad Textile Industry's Research Association, Ahmedabad

DR B. V. IYER (*Alternate*)

Indian Standard

SPECIFICATION FOR COTTON CLOTH FOR *PAGRIS* AND *PAGS*

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 26 November 1973, after the draft finalized by the Cotton and Cotton Products Sectional Committee had been approved by the Textile Division Council.

0.2 This standard is based on IND/TC/0016 'Cloth, cotton for pagris and pags', issued by the Ministry of Defence, Government of India.

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS: 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes requirements of cotton cloth, bleached or dyed, used for *PAGRIS* and *PAGS*.

2. MANUFACTURE

2.1 The cloth shall be evenly and firmly woven employing plain weave and shall be reasonably free from weaving defects.

2.2 The white cloth shall have a full bleached finish.

NOTE — The whiteness shall not be obtained through the use of optical whiteners.

2.3 The dyed cloth shall be dyed to the required shade using vat dyes. The dyed fabric shall be free from stains, streaks, patches, etc.

3. REQUIREMENTS

3.1 The cloth shall conform to the requirements specified in Tables 1 and 2.

*Rules for rounding off numerical values (*revised*).

**TABLE 1 PHYSICAL REQUIREMENTS OF COTTON CLOTH FOR
PAGRI AND PAGA**

(Clause 3.1)

METHOD OF TEST	COUNT OF YARN (APPROX)		THREADS PER dm, <i>Min</i>		WEIGHT, <i>Min</i>	BREAKING LOAD ON 5.0 × 20 cm STRIPS, <i>Min</i>	
	Warp	Weft	Ends	Picks		Warp	Weft
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	20 tex (or 30 ^S)	20 tex (or 30 ^S)	300	214	g/m ² 102	kg 32	kg 17
	—	—	IS : 1963-1969*	IS : 1964- 1970†	IS : 1969-1968‡		

*Methods for determination of threads per decimetre in woven fabrics (*first revision*).†Methods for determination of weight per square metre and weight per linear metre of fabrics (*first revision*).‡Method for determination of breaking load and elongation at break of woven textile fabrics (*first revision*).

4. MARKING

4.1 The cloth shall be marked with the following:

- Name of the material;
- Manufacturer's name, initials or trade-mark; and
- Month and year of manufacture.

4.1.1 The cloth may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. The ISI marked products are continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

5. PACKING

5.1 Unless otherwise specified, the cloth shall be packed in conformity with the procedure laid down in IS: 1347-1972*.

*Code for inland packaging of cotton cloth and yarn (*first revision*).

TABLE 2 OTHER REQUIREMENTS OF COTTON CLOTH FOR
PAGRIS AND PAGS

(Clause 3.1)

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST
(1)	(2)	(3)	(4)
i)	Scouring loss, percent by mass, <i>Max</i>	2	Appendix A of IS : 863-1969*
ii)	pH value	Between 6 and 8.5	IS : 1390-1961†
iii)	Ash content, percent by mass, of bleached cloth, <i>Max</i>	0.5	7 of IS : 199-1957‡ (see Note 1)
iv)	Water solubles, percent by mass of bleached cloth, <i>Max</i>	1	IS : 3456-1966§
v)	Colour fastness to:		
	a) Light	5 or better (see Note 2)	IS : 2454-1967
	b) Washing	4 or better	IS : 765-1966¶ (see Note 3)
	c) Bleaching	4 or better	IS : 762-1956**
vi)	Length:		
	a) For <i>PAGRIS</i>	5.5 m or multiples thereof	IS : 1954-1969††
	b) For <i>PAGS</i>	4.5 m or multiples thereof	
vii)	Width	Approximate 81 cm	

NOTE 1 — Ash content shall be determined after the removal of water soluble matter.

NOTE 2 — For olive-green shade used for Defence purposes, the requirement for colour fastness to light shall be 6 or better.

NOTE 3 — In the case of cloth dyed to olive-green shade for Defence purposes the colour fastness to washing shall be tested according to IS : 3417-1966 'Method for determination of colour fastness of textile materials to washing: test 5', repeating 4 times to simulate service requirements.

*Specification for handloom cotton bandage cloth (*first revision*).

†Methods for determination of pH value of aqueous extracts of textile materials.

‡Method for estimation of moisture, total size or finish, ash and fatty matter in grey and finished cotton textile materials (*revised*).

§Method for determination of water soluble matter of textile materials.

||Method for determination of colour fastness of textile materials to artificial light (xenon lamp).

¶Colour fastness of textile materials to washing: test 4 (*revised*).

**Method for determination of colour fastness of textile materials to hypochlorite bleaching.

††Methods for determination of length and width of fabrics (*first revision*).

6. SAMPLING

6.1 For ascertaining the conformity in respect of ends, picks, weight per square metre and breaking load, the procedure given in IS:3919-1966* shall be followed.

6.2 For ascertaining the conformity in respect of pH value, water solubles, ash content, scouring loss and colour fastness, the procedure given in IS:5463-1969† shall be followed.

*Methods for sampling of cotton fabrics for determination of physical characteristics.

†Methods for sampling of cotton fabrics for chemical tests.

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones: 331 01 31, 331 13 75

Telegrams: Manaksanstha
(Common to all Offices)

Regional Offices:

	Telephone
Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002	{ 331 01 31 331 13 75 36 24 99
*Eastern : 1/14 C. I. T. Scheme VII M. V. I. P. Road, Maniktola, CALCUTTA 700054	{ 2 18 43 3 16 41 41 24 42
Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036	{ 41 25 19 41 29 16
Southern : C. I. T. Campus, MADRAS 600113	{ 6 32 92 95
†Western : Manakalaya, E9 MIDC, Marol, Andheri (East), BOMBAY 400093	

Branch Offices:

'Pushpak', Nurmohamed Shaikh Marg, Khanpur, AHMADABAD 380001	{ 2 63 48 2 63 49
‡Peenya Industrial Area 1st Stage, Bangalore Tumkur Road BANGALORE 560058	{ 38 49 55 38 49 56
Gangotri Complex, 5th Floor, Bhadbhada Road, T. T. Nagar, BHOPAL 462003	6 67 16
Plot No. 82/83, Lewis Road, BHUBANESHWAR 751002	5 36 27
53/5, Ward No. 29, R.G. Barua Road, 5th Byelane, GUWAHATI 781003	3 31 77
5-8-56C L. N. Gupta Marg (Nampally Station Road), HYDERABAD 500001	23 10 83
R14 Yudhister Marg, C Scheme, JAIPUR 302005	{ 6 34 71 6 98 32
117/418 B Sarvodaya Nagar, KANPUR 208005	{ 21 68 76 21 82 92
Patliputra Industrial Estate, PATNA 800013	6 23 05
T.C. No. 14/1421, University P.O., Palayam TRIVANDRUM 695035	{ 6 21 04 6 21 17

Inspection Offices (With Sale Point):

Pushpanjali, First Floor, 205-A West High Court Road, Shankar Nagar Square, NAGPUR 440010	2 51 71
Institution of Engineers (India) Building, 1332 Shivaji Nagar, PUNE 411005	5 24 35

*Sales Office in Calcutta is at 5 Chowringhee Approach, P. O. Princep 27 68 00
Street, Calcutta 700072

†Sales Office in Bombay is at Novelty Chambers, Grant Road, 89 65 28
Bombay 400007

‡Sales Office in Bangalore is at Unity Building, Narasimharaja Square, 22 36 71
Bangalore 560002

AMENDMENT NO. 1 FEBRUARY 1978

TO

IS : 7119-1973 SPECIFICATION FOR COTTON CLOTH FOR *PAGRIS* AND *PAGS*

This amendment is being issued to incorporate the requirements of superfine variety.

Alterations

(Page 3, clause 2.3, line 1) — Substitute 'appropriate dyes' for 'vat dyes'.

(Page 4, Table 1) — Substitute the following for the existing matter:

**TABLE 1 CONSTRUCTIONAL PARTICULARS OF COTTON CLOTH FOR
PAGRIS AND *PAGS***

(Clause 3.1)

VARIETY No.	APPROXIMATE COUNT OF YARN COTTON COUNT (TEX)		ENDS/cm	PICKS/cm	MASS g/m ²	BREAKING LOAD ON 5.0 × 20 cm STRIPS, Min	
	Warp	Weft				Warp	Weft
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	30 ^s (20 tex)	30 ^s (20 tex)	30	22	105	310 N	160 N
2	80 ^s (7.4 tex)	80 ^s (7.4 tex)	30	25	40	190	110
TOLERANCE, PERCENT	—	—	±5	±5	+5 -2.5	—	—
METHOD OF TEST	—	—	IS : 1963-1969*		IS : 1964- 1970†	IS : 1969- 1968‡	

NOTE — 1 Newton (N) is approximately equal to 0.102 kgf.

*Methods for determination of threads per decimetre in woven fabrics (*first revision*).

†Methods for determination of weight per square metre and weight per linear metre of fabrics (*first revision*).

‡Method for determination of breaking load and elongation at break of woven textile fabrics (*first revision*).

[Page 5, Table 2, Sl No. (vii)] — Substitute the following for the existing matter:

(1)	(2)	(3)	(4)
vii)	Width:		IS : 1954-1969††
	Variety 1	81 cm	
	Variety 2	115 cm	

(TDC 2)

AMENDMENT NO. 2 FEBRUARY 1980

TO

IS:7119-1973 SPECIFICATION FOR COTTON CLOTH
FOR *PAGRIS* AND *PAGS*

Alteration

(*Page 3, clause 2.2, Note*) - Substitute the following
for the existing Note:

'NOTE - The desired whiteness of the cloth would be
achieved only by imparting full bleached finish free
from any bluing/whitening agents, if desired by the
buyer.'

(TDC 2)

Reprography Unit, BIS, New Delhi, India

AMENDMENT NO. 3 APRIL 1990
TO
IS 7119 : 1973 SPECIFICATION FOR COTTON CLOTH
FOR *PAGRIS* AND *PAGS*

[*Page 5, Table 2, Sl No. (v) (c)*] — Insert the following at the end:

'd) Rubbing

IS 766 : 1988††

Dry

4 or better

Wet

4 or better

††Colour fastness of textile materials to rubbing.'

(TDC 2)